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ELASTOMERS -NATURAL RUBBERS-

SUPERPOLY

DESCRIPTION:

The Superpoly (SP) line of specialty polyisoprene natural rubbers are partially pre-crosslinked, high performance elastomers available in bale form. These elastomers are produced by blending specific proportions of vulcanized and unvulcanized natural rubber during the latex phase of production. The latex phase blending ensures a homogeneous, uniform mix of the two components. Due to their unique two-phase structure, SP natural rubbers are very clean, light in color and contain low levels of volatile matter.

TYPICAL PROPERTIES:

<i>Superpoly Grade:</i>	<i>20</i>	<i>40</i>	<i>50</i>
% Vulcanized Rubber	20	40	50
Dirt on 44 μ aperture	0.01	0.01	0.01
Nitrogen Content, %	0.50	0.50	0.49
Volatile Matter, %	0.65	0.65	0.32
MS (1+4) 100°C ¹	75.00 ²	40.00	50.00
Initial Wallace Plasticity (Po) ¹	30.00	40.00	----
Total Sulfur, %	0.50	1.00	1.15
Free Sulfur, %	0.08	0.25	0.25

¹ at time of production, ² ML (1+4) 100°C

APPLICATIONS:

Superpoly natural rubbers are used in quality formulations as either the sole elastomer or as a blend (process aid) with other natural or synthetic elastomers. These natural rubbers have the ability to improve flow characteristics and increase mix viscosities which are advantageous properties to mixing, preforming and molding rubber. For extruded goods, SPs create fast throughput, low die swell, smooth surfaces and increase dimensional stability. Applications include: wiper blades, tubing, hoses, sponge, surgical articles, gaskets, windscreen seals, etc. For calendered parts, SPs reduced shrinkage and improve surface finish and gauge consistency. Uses include: sheeting, tape, cut threads, railway pad ballast, etc. With the use of SPs, molded goods benefit with less air and volatile entrapment (blisters), gauge consistency, surface appearance, etc. SP-20 ADS is a special grade used in solvent adhesive systems. This grade has the special ability to maintain a lower solution viscosity compared to a conventional natural rubber with the same mooney viscosity and concentration; i.e. higher solids possible.

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